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(71)出願人 392031859

上六印刷株式会社

大阪府大阪市天王寺区上沙3丁目2番16号

(72)考案者 澤 洋

大阪市天王寺区北山町9番1-4号

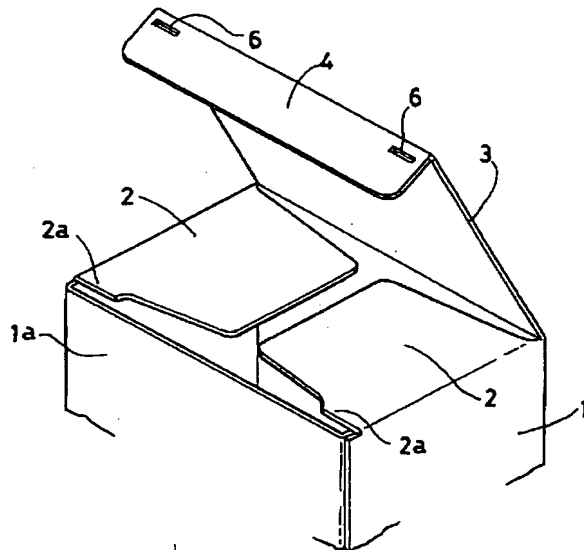
(74)代理人 弁理士 鎌田 文二 (外2名)

(54)【考案の名称】 包装箱における差し込みフラップ片のロック構造

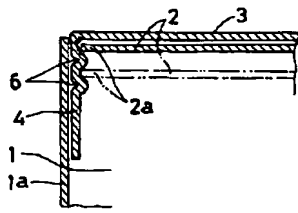
(57)【要約】

【目的】 開放時の差し込みフラップ片折曲部の破れを防止する。

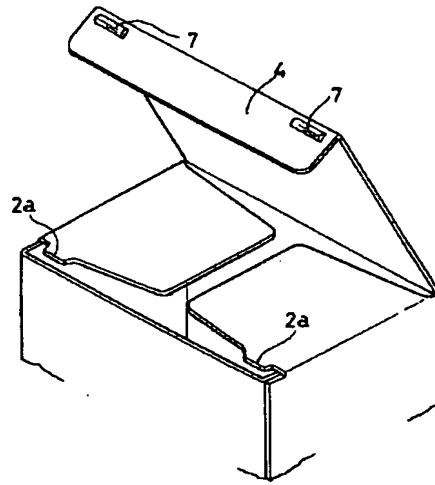
【構成】 四角状箱本体1の開口縁に内フラップ片2、外フラップ片3をそれぞれ折曲可能に連設するとともに、外フラップ片3の前縁に差し込みフラップ4を折曲可能に連設する。差し込みフラップ片両側のその折曲線近傍には内フラップ片側縁2aが係止する突起6を形成する。内フラップ片2、2を内側に折り曲げ、その上に外フラップ片3を折り重ねて、差し込みフラップ片4を箱本体1の前壁1aと内フラップ片2の側縁2aの間に差し込む。その差し込みにつれ、内フラップ片側縁2aの内側への撓みをもって突起6がその側縁2aを乗り越えて係止する。一方、逆操作によって、フラップ片4は引き出される。



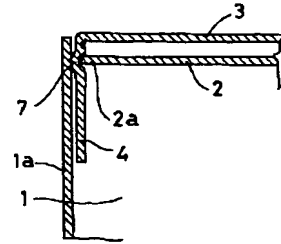
【図6】



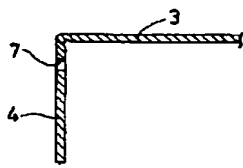
【図7】



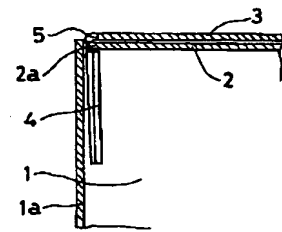
【図8】



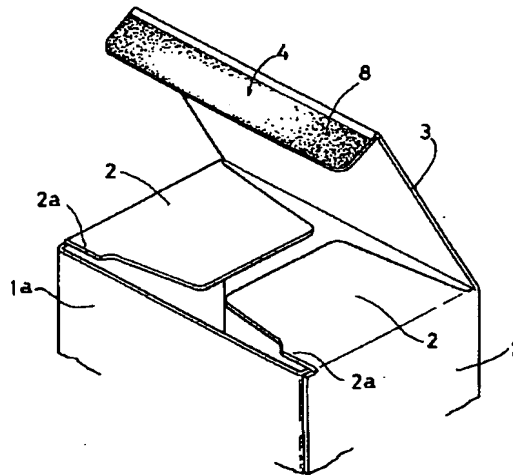
【図9】



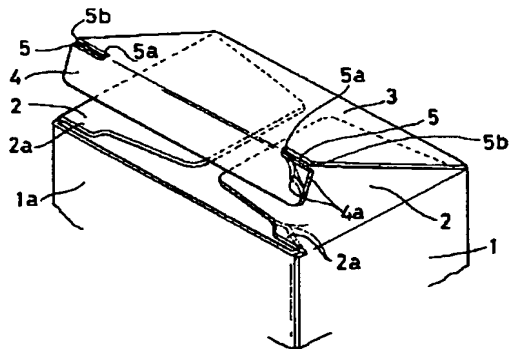
【図12】



【図10】



【図11】



いため、何かに引っかかり易く、同じく前記破れ・欠損が生じる場合もある。商品を見せる際に、この破れ・欠損が生じておれば、商品価値はなくなり、新たな包装箱に入れ替えなければならないこととなる。

【0005】

この考案は、以上の点に留意し、上記の破れ・欠損が生じないようにすることを課題とする。

【0006】

【課題を解決するための手段】

上記課題を解決するために、一の考案にあつては、上述のフラップ片の差し込みで開口を閉じる包装箱において、その差し込みフラップ片両側のその折曲線近傍に内フラップ片の側縁に係止する突起又は凹部を形成した構成としたのである。

【0007】

また、他の考案にあつては、差し込みフラップ片の一面に摩擦係数の高いコーティング層を形成した構成としたのである。

【0008】

【作用】

このように構成する一の考案に係るロック構造は、差し込みフラップ片の差し込みにつれ、内フラップ片側縁の内側への撓みでもって突起がその側縁を乗り越え、又は内フラップ片側縁が撓みながら凹部に係止する。この係止は、外フラップ片を持って差し込みフラップ片を引き抜くことにより解除される。その解除は、前述と同様に内フラップ片側縁の外側への撓み又はその撓みによる突起の乗り越えによって行われ、その側縁が破れることはない。

【0009】

他の考案に係るロック構造は、差し込みフラップ片を、その一面コーティング層と内フラップ片側縁又は前壁裏面との摩擦に抗して差し込み、その摩擦力でもって抜け止めする。外フラップ片の開放は、差し込みフラップ片を摩擦力に抗して引き抜くことにより行う。このとき、摩擦力に抗するだけなので、内フラップ片側縁が破れ・欠損することはない。

【0016】

図10に示す実施例は、差し込みフラップ片4の少なくとも一面（表面、裏面又は両面）を粗面にして摩擦抵抗を高めたものであり、例えば、スクリーン印刷によって格子状、梨地状等の凹凸に種々の塗料・顔料を塗布する。この塗布層（コーティング層8）は箱表面の模様印刷と同時に行うことができる。

【0017】

この実施例は、差し込みフラップ片4を、コーティング層8と内フラップ片3側縁又は前壁1a裏面との摩擦に抗して差し込み、その摩擦力でもって抜け止めする。外フラップ片3の開放は、差し込みフラップ片4を摩擦力に抗して引き抜くことにより行う。

【0018】

なお、この考案のロック構造は箱本体1の開放側のみならず、底側にも構成することができる。

【0019】

【考案の効果】

この考案は以上のように構成したので、従来のようなフラップ片の破れ・欠損の恐れはない。

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Inventor: Hiroshi SAWA

Applicant : Ueroku Insatsu Kabushiki Kaisha

Locking Structure of Insertion Flap Piece in Package Box

CLAIMS

[Utility model registration claim]

[Claim 1] While forming successively respectively possible [bending of the piece 2 of an inner flap] to two sides which the opening edge of the body 1 of a rectangular-head-like box counters and forming successively possible [bending of the piece 3 of a flap] outside the magnitude of said opening to one two-side side which others counter Insert in the first transition of the piece 3 of the outside flap, and the pieces 4 of a flap are formed successively possible [bending]. In the shipping box which bent said piece 2 of an inner flap inside, turned up the piece 3 of an outside flap on it, and inserted said piece 4 of a plug flap between front wall 1a of said body 1 of a box, and side edge 2a of the piece 2 of an inner flap Lock structure of the piece of a plug flap in the shipping box characterized by forming the projection 6 or crevice 7 which side edge 2a of the piece 2 of the flap in the above stops near [the] the bending line of the piece of plug flap 4 above-mentioned both sides.

[Claim 2] While forming successively respectively possible [bending of the piece 2 of an inner flap] to two sides which the opening edge of the body 1 of a rectangular-head-like box counters and forming successively possible [bending of the piece 3 of a flap] outside the magnitude of said opening to one two-side side which others counter Insert in the first transition of the piece 3 of the outside flap, and the pieces 4 of a flap are formed successively possible [bending]. In the shipping box which bent said piece 2 of an inner flap inside, turned up the piece 3 of an outside flap on it, and inserted said piece 4 of a plug flap between front wall 1a of said body 1 of a box, and side edge 2a of the piece 2 of an inner flap Lock structure of the piece of a plug flap in the shipping box characterized by forming the coating layer 8 with high coefficient of friction in the whole surface of the above-mentioned piece 4 of a plug flap.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed explanation of a design]

[0001]

[Industrial Application]

In the box which packs various goods, such as cosmetics, medicine, and confectionery, in case this design closes that opening, it is related with that lock structure that inserts the piece of a lid and is locked with the plug of the piece of a flap.

[0002]

[Description of the Prior Art]

As a shipping box, as shown in drawing 11 , it forms successively respectively possible [bending of the inner flaps 2 and 2] to two sides which the opening edge of the body 1 of a rectangular-head-like box counters. While forming successively possible [bending of the piece 3 of a flap] outside the magnitude of said opening to one two-side side which others counter Insert in the first transition of the piece 3 of the outside flap, and the pieces 4 of a flap are formed successively possible [bending]. Said pieces 2 and 2 of an inner flap are bent inside, the piece 3 of an outside flap is turned up on it, and there is a thing of a configuration of having inserted said piece 4 of a plug flap between front wall 1a of said body 1 of a box and side edge 2a of the pieces 2 and 2 of an inner flap.

[0003]

If the piece 4 of a plug flap is inserted as are shown in this drawing, and infeed 5 is formed on those bending line both ends of the piece 4 of a plug flap and it is shown in drawing 12 , side edge 2a of the piece 2 of an inner flap fits into that infeed 5, the conventional lock structure of the piece 4 of a plug flap in this shipping box is inserted as that fitting is also, the piece 4 of a flap escapes from it, and it is carrying out the stop (lock).

[0004]

[Problem(s) to be Solved by the Device]

In the lock structure of the above-mentioned piece 4 of a plug flap, when that discharge sags side edge 4a of the piece 4 of a plug flap, and inner flap one side marginal 2a outside like the drawing 11 chain line, and performs them along with raising of the piece 4 of a plug flap and this actuation is performed strongly, those side edges 2a and 4a will be joined by the big bending force. Generally, the actuation is treated roughly, the piece 4 of a plug flap was pulled up strongly, and it often arises that angle 5b and edge 5a of infeed 5 tear or suffer a loss. Moreover, since it is sharp, angle 5b tends to be caught in something, and, similarly said tear and deficit may produce it. If this tear and deficit have arisen in case goods are shown, commodity value will be lost and must be changed to a new shipping box.

[0005]

This design makes it a technical problem to make it above-mentioned tear and deficit not arise with careful attention to the above point.

[0006]

[Means for Solving the Problem]

If it was in the design of 1 in order to solve the above-mentioned technical problem, it considered as the configuration in which the projection or crevice which the side edge of the

crevice 7. As shown in drawing 9 , a bore is sufficient as this crevice 7.

[0016]

the example shown in drawing 10 -- the piece 4 of a plug flap -- the whole surface (a front face, a rear face, or both sides) is made into a split face at least, and frictional resistance is raised, for example, various coating and pigments are applied to irregularity, such as the shape of the shape of a grid, and crepe, by screen-stencil. This spreading layer (coating layer 8) can be made into encaustic printing and coincidence on the front face of a box.

[0017]

This example resists and inserts the piece 4 of a plug flap in friction with the coating layer 8, piece of inner flap 3 side edges, or a front wall 1a rear face, and it escapes that it is also at that frictional force from it, and it carries out a stop. Disconnection of the piece 3 of an outside flap is performed by resisting frictional force and drawing out the piece 4 of a plug flap.

[0018]

In addition, the lock structure of this design can be constituted not only in the disconnection side of the body 1 of a box but in a bottom side.

[0019]

[Effect of the Device]

Since this design was constituted as mentioned above, there is no fear of a tear and deficit of a piece of a flap like before.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The important section perspective view of one example

[Drawing 2] The sectional view for operation explanation of this example

[Drawing 3] The important section perspective view of other examples

[Drawing 4] The sectional view of this example

[Drawing 5] The important section perspective view of other examples

[Drawing 6] The sectional view for operation explanation of this example

[Drawing 7] The important section perspective view of other examples

[Drawing 8] The sectional view for operation explanation of this example

[Drawing 9] The important section sectional view of other examples

[Drawing 10] The important section perspective view of other examples

[Drawing 11] The important section perspective view of the conventional example

[Drawing 12] The sectional view for operation explanation of the conventional example

[Description of Notations]

1 Shipping-Box Body

1a Body front wall

2 Piece of Inner Flap

2a Inner flap one side edge

3 Piece of Outside Flap

4 Piece of Plug Flap

5 Infeed

6 Projection

7 Crevice (Bore)

8 Coating Layer

[Translation done.]

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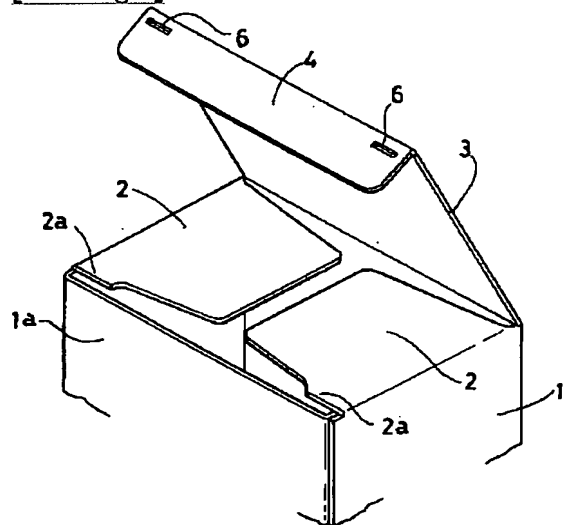
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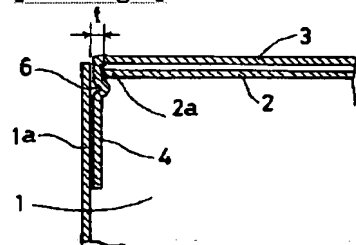
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DRAWINGS

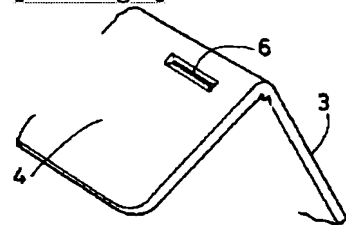
[Drawing 1]



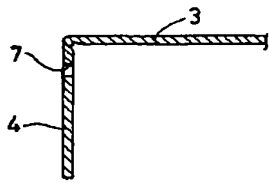
[Drawing 2]



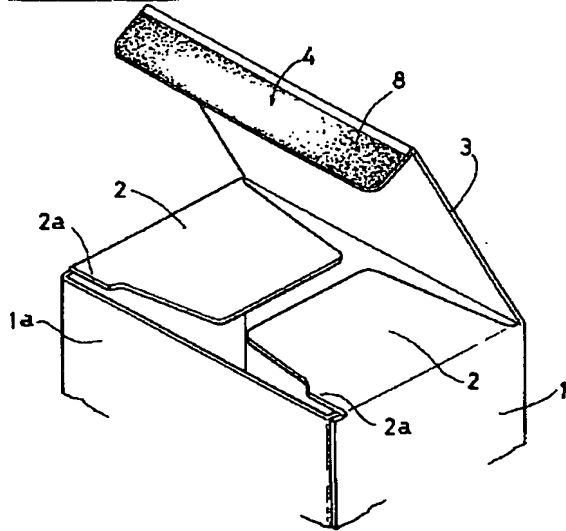
[Drawing 3]



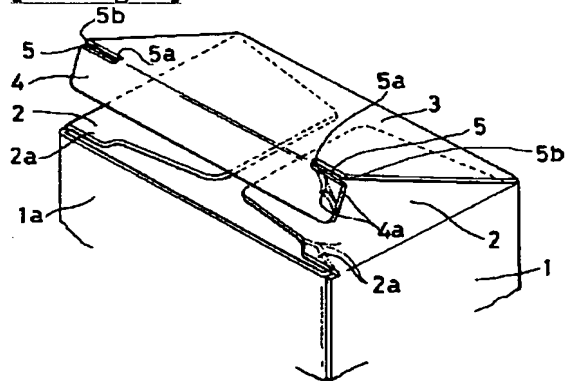
[Drawing 4]



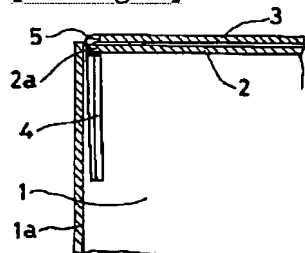
[Drawing 10]



[Drawing 11]



[Drawing 12]



[Translation done.]